



U.S. Department  
Of Transportation

Federal Highway  
Administration

# Memorandum

6300 Georgetown Pike  
McLean, Virginia 22101

Subject: **ACTION:** LTPP Directive D-51  
Clarification of LTPP Distress Data Collection  
Procedures for Potholes

Date: August 19, 2010

From: Jack Springer   
Long Term Pavement Performance Team

Reply to  
Attn of: HRDI-13

To: Dr. Frank Meyer, PM - LTPP North Atlantic Regional Contract  
Dr. Frank Meyer, PM - LTPP North Central Regional Contract  
Mr. Mark Gardner, PM - LTPP Southern Regional Contract  
Mr. Kevin Senn, PM - LTPP Western Regional Contract

Attached is the Long Term Pavement Performance (LTPP) Program Directive D-51. The procedure prescribed in directive D-40 for recording pothole areas is superseded by this directive.

Please ensure that all personnel are aware of this new directive. Should you have any questions or would like to discuss this directive, please do not hesitate to contact me at 202-493-3144.

Attachments (2)

FHWA:HRDI-13:JSpringer:mad:493-3144:08/19/10

File: c:/mdeeney/directive/distress/d-51dir.doc

cc:

Jonathan Groeger  
Directive Binder  
LTPP Team  
Official file  
Chron



# LONG-TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE



*For the Technical Direction of the LTPP Program*



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<b>Program Area:</b>	Distress	<b>Directive Number:</b>	D-51
<b>Date:</b>	August 19, 2010	<b>Supersedes:</b>	D-40 in part
<b>Subject:</b>	<i>Clarification of LTPP Distress Data Collection Procedures for Potholes</i>		

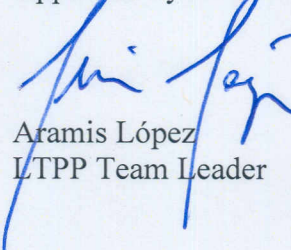
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The procedure prescribed in directive D-40 for recording pothole areas is superseded by this directive.

1. The minimum plan dimension for a pothole is 150 mm (6 in.). Circular potholes should have a minimum diameter of 150 mm (6 in.). A 150 mm (6 in.) diameter circle should fit inside irregular shaped potholes. The minimum area for a pothole is about 0.02 m<sup>2</sup> (0.2 ft<sup>2</sup>). The actual plan dimensions and the actual area of the pothole shall be recorded on the distress map sheets.
2. The total number of potholes meeting the minimum plan dimension is to be summarized and recorded in the Section Summary on map sheet 1.
3. The actual total area of all potholes meeting the minimum plan dimension are to be summed to the nearest 0.01 m<sup>2</sup> (0.1 ft<sup>2</sup>) and recorded in the Section Summary on map sheet one.
4. The total number of potholes meeting the minimum plan dimension and the total area of all potholes meeting the minimum plan dimension shall be recorded on the attached revised Distress Survey Sheet 1.
5. Potholes not meeting minimum plan dimension are to be drawn on the distress map sheets and commented, but not included in totals reported on the Section Summary or Distress Survey Sheet 1.

Prepared by: LTPP HQ

Approved by:



Aramis López  
LTPP Team Leader

## SHEET 1

DISTRESS SURVEY

STATE CODE                   \_\_ \_\_

LTPP PROGRAM

SHRP SECTION ID           \_\_ \_\_ \_\_ \_\_  
\_\_\_\_\_DISTRESS SURVEY FOR PAVEMENTS WITH ASPHALT CONCRETE SURFACES

DATE OF DISTRESS SURVEY (MONTH/DAY/YEAR)                   \_\_ \_\_/ \_\_ \_\_/ \_\_ \_\_

SURVEYORS: \_\_ \_\_ \_\_, \_\_ \_\_ \_\_ PHOTOS, VIDEO, OR BOTH WITH SURVEY(P,V,B) \_\_

PAVEMENT SURFACE TEMP - BEFORE \_\_ \_\_ \_\_ °C; AFTER \_\_ \_\_ \_\_ °C  
\_\_\_\_\_

DISTRESS TYPE	SEVERITY LEVEL		
	LOW	MODERATE	HIGH
<b>CRACKING</b>			
1. FATIGUE CRACKING (SQUARE METERS)	__ __ __. __	__ __ __. __	__ __ __. __
2. BLOCK CRACKING (SQUARE METERS)	__ __ __. __	__ __ __. __	__ __ __. __
3. EDGE CRACKING (METERS)	__ __ __. __	__ __ __. __	__ __ __. __
4. LONGITUDINAL CRACKING			
4a. Wheelpath (Meters)	__ __ __. __	__ __ __. __	__ __ __. __
Length Sealed (Meters)	__ __ __. __	__ __ __. __	__ __ __. __
4b. Non-Wheelpath (Meters)	__ __ __. __	__ __ __. __	__ __ __. __
Length Sealed (Meters)	__ __ __. __	__ __ __. __	__ __ __. __
5. REFLECTION CRACKING AT JOINTS	Not Recorded		
6. TRANSVERSE CRACKING			
Number of Cracks	__ __ __	__ __ __	__ __ __
Length (Meters)	__ __ __. __	__ __ __. __	__ __ __. __
Length Sealed	__ __ __. __	__ __ __. __	__ __ __. __
<b>PATCHING AND POTHOLES</b>			
7. PATCH/ PATCH DETERIORATION (Number)	__ __ __	__ __ __	__ __ __
(Square Meters)	__ __ __. __	__ __ __. __	__ __ __. __
8. POTHOLE			
(Number)	__ __ __	__ __ __	__ __ __
(Square Meters)	__ __. __	__ __. __	__ __. __